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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/056,297 | 01/25/2002 | Gerhard Josef Karl Weusthof | TTII 0112 PUS | 9772 |

22045 7590 10/15/2003

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EXAMINER

ALIE, GHASSEM

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

3724

DATE MAILED: 10/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/056,297

Applicant(s)

WEUSTHOF ET AL.

Examiner

Ghassem Alie

Art Unit

3724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) 4,5,14-16 and 18 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-13, and 17 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Art Unit: 3724

Election/Restrictions

1. Applicant's election without traverse of the species II in Paper No. 4 is acknowledged.

Claim Objections

2. Claim 8 is objected to because of the following informalities: in line 13, "a electrical power" should be --an electrical power--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

a person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, 6, 8-10, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Chang (6,584,695). Regarding claim 1, 2 and 8, Chang teaches a laser arbor 10 a saw blade 52. Chang also teaches that the arbor 10 includes a housing 20 and a laser light 19, which is disposed within the housing 20. Chang also teaches a circuit 12 which is electrically connected to the laser 19 for providing power to the laser 19. The circuit 12 providing power from a voltage source that includes a portion secured to a non-rotating portion of the saw blade. The steel plates 16, the armature coil 17, and a stator member of the magnetic ring 36 produce the induced current for the laser generator 11. The stator is secured to the magnetic ring base 30, which is one of non-rotating portions of the saw blade. The magnetic base 30 is connected to the gear box 42 of an end side of the motor 40. Chang also teaches that the

Art Unit: 3724

motor 40 has a spindle 45 connected to the saw blade 52. Chang also teaches that the light source 19 emits a narrow beam of light adjacent the blade 52 for providing a visual indication of the alignment of the blade with the workpiece. Chang also teaches a generator, which is defined by the rotor 10 and the stator. The stator is secured adjacent to the housing 20. Chang also teaches that the rotor 10 is associated with and rotated with the housing 20 and electrical energy is generated as the spindle 45 rotates the rotor 10 relative to the stator. The protective cover 20 is screwed on the rotary base 10 and rotates with the rotary base 10. See Figs. 1-5 and col. 2, lines 41-67 and co. 3, lines 1-67 and col. 4, lines 1-12 in Chang.

Regarding claims 6 and 12, Chang teaches everything noted above including that the circuit 12 includes a power conditioning circuit that provide power within a predetermined voltage range to the laser 19. See Fig. 1 and col. 2, lines 55-60 in Chang.

Regarding claim 9, Chang teaches everything noted above including that rotor is an electrical coil 17. See Fig. 1 in Chang.

Regarding claim 10, Chang teaches everything noted above including that stator is an electrical magnet 36. See Fig. 1 in Chang.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 3, 7, 11, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang and in view of Baines (5,097,170). Regarding claims 3 and 17, Chang teaches

Art Unit: 3724

everything noted above including that a magnet 36 is secured to the stator and the circuit generator has an arcuate coil section 17, which is rotated by the spindle 45. The arcuate coil 17 is attached to the rotor 10. The circular saw 52 has a fixed guard as shown in Fig. 1 in Chang. Chang does not expressly teach that the stator's magnet is a permanent magnet, which is secured to the fixed guard. However, the use of permanent magnet in the electrical generators is well known in the art such as taught by Baines. Baines teaches a permanent magnet 29 secured to the stator 10. See Fig. 1 and col. 2, lines 35-68 in Baines. It would have been obvious to a person of ordinary skill in the art to provide Chang's generator with the permanent magnet as taught by Baines in order to raise the average magnet flux density in the electromagnetic circuit. The increased magnetic flux density proportionally increases the emf generated in the generators' stator and consequently increases the power output of the generator. Baines also teaches that the stator 10 is fixed to a fixed guard 10, which is located on the opposite side of the rotor 11. See Fig. 1 in Baines. The supporting plate 12 is defined as a fixed guard. The electrical generator as taught by Chang functions the same if the stator is secured to the fixed guard as taught by Baines. Since different arrangements of the stator and the rotor generates electricity as long as the rotor and the stator face one another. Therefore, it would have been obvious to a person of ordinary skill in the art to secure the stator of Chang's electrical generator on the fixed guard as taught by Baines.

Regarding claim 7, Chang as modified Baines teaches everything noted above including that fixed guard is part of the non-rotating portion of the saw. The stator as taught by Chang has a permanent magnet and it is secured to the fixed guard as taught by Baines. See Fig. 1 in Chang and Baines.

Art Unit: 3724

Regarding claim 11, Chang as modified Baines teaches everything noted above including that the stator is a permanent magnet. See col. 2, lines 35-40 in Baines.

7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang and in view of Poet et al. (2002/0170404), hereinafter Poet. Regarding claim 13, Chang teaches everything noted above except that the light source is a LED laser. However, Chang teaches that the light source is a laser light indication line, which is projected on the workpiece. The use of the LED laser as the light source for apparatus that has a laser light indication line is well known in the art such as taught by Poet. Poet teaches a laser beam 48 for alignment of the saw blade 12 and the workpiece 18. Poet also teaches that the source of the light beam 48 is LED laser. See Figs. 1 and 9 and page 2, paragraph 29 in Poet. It would have been obvious to a person of ordinary skill in the art to provide Chang's generator with the LED light source as taught by Poet in order to project a sharp, visible light beam on the of the workpiece.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Leininger (Re. 36,917), Zick et al. (6,236,177), Okouchi (2001/0029819), Chen (2003/0097922), and Hsiung (6,481,322) teach a laser arbor for saw blade including spindle and laser light beam.

Caamano (6,259,233 and 6,407,466), Bader et al. (3,675,113), and Inariba (3,555,325) teach an electrical generator including stator and rotor.

Art Unit: 3724

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ghassem Alie whose telephone number is (703) 305-4981.


The examiner can normally be reached on Mon-Fri 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan Shoap can be reached on (703) 305-1082. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9302 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

GA/ga

October 7, 03


Allan N. Shoap
Supervisory Patent Examiner
Group 3700